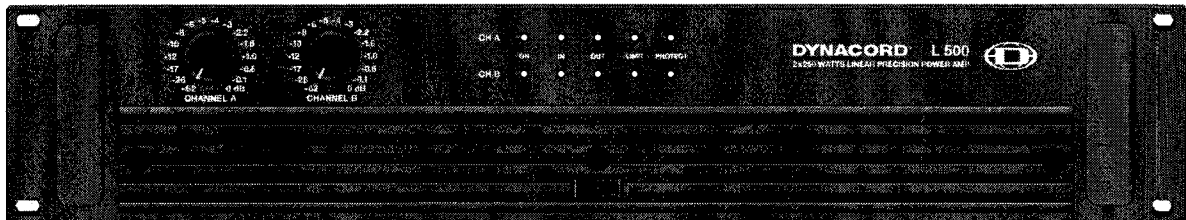


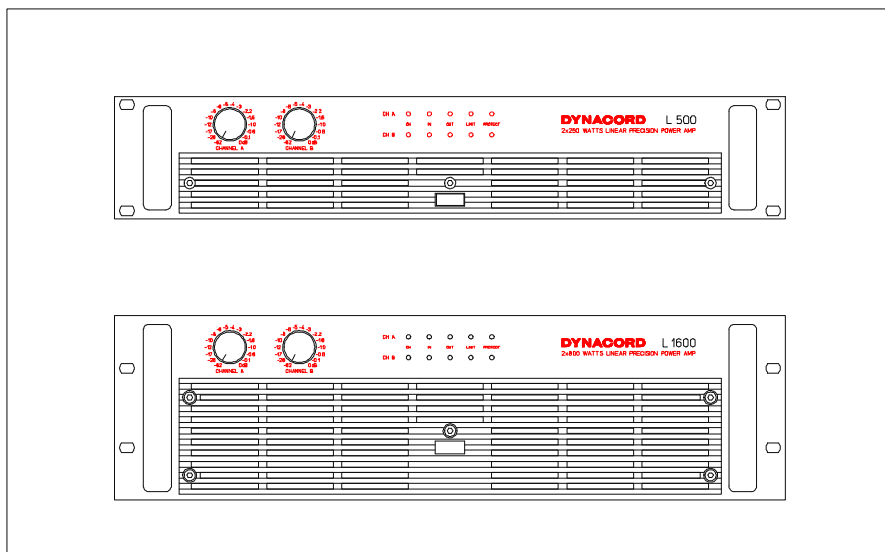
# DYNACORD®

## SERVICE MANUAL



**L 500**

LINEAR PRECISION POWER AMP



## Technische Informationen

*Architects and engineers specifications*

**L 300**  
**L 500**  
**L 1000**  
**L 1600**  
**L 2400**

LINEAR PRECISION SERIE

LINEAR PRECISION SERIES

## BESCHREIBUNG

Die DYNACORD - Endstufen der LINEAR PRECISION SERIE erfüllen auch die extremen Anforderungen harten Tour-Betriebs. Sie sind gegen Überhitzung, Überlast, Kurzschluß sowie Hochfrequenz und Gleichspannung am Ausgang geschützt. Eine Beschädigung der Endtransistoren durch Rückeinspeisung elektrischer Energie wird zusätzlich durch eine spezielle Schutzschaltung verhindert. Beim Softstart werden die Leistungsausgänge über Relais verzögert zugeschaltet. Eine Einschaltstrombegrenzung verhindert das Ansprechen von Netzsicherungen. Höchste Präzision ist auch in der mechanischen Konstruktion und Verarbeitung gewährleistet. Das robuste Stahlblech-Chassis ist besonders verwindungsteif und speziell auf den harten Tourbetrieb im Rock & Roll Business ausgelegt. Die Thermische Stabilität wird durch mehrere 3-Stufen Lüfter mit sehr niedrigem Geräuschpegel gewährleistet, was ihren Einsatz auch in Studios ermöglicht. Comparatorschaltungen vergleichen ständig das Eingangs- und das Ausgangssignal der Endstufen und steuern bei Auftreten von nichtlinearen Betriebszuständen die eingebauten Limiter. Sie schützen die angeschlossenen Lautsprecher vor Überlast durch Endstufencipping. Die Übertragungseigenschaften der LINEAR PRECISION Endstufen sind exzellent. Die verwendete Topologie ermöglicht unter anderem besonders niedrige Verzerrungswerte. Klirrfaktor (THD), Intermodulationsverzerrungen (SMPTE-IM) und transiente Intermodulationsverzerrungen (DIM 30 und DIM 100) sind so gering, daß sie nur noch mit höchstwertigem Meßequipment nachweisbar sind. Durch groß dimensionierte Netzteile mit streuarmlen Ringkerntransformatoren wird ein großer Headroom weit oberhalb der ausgewiesenen Nennleistung erzielt. In den Endstufen wurde auf die Verwendung von V/I-Foldback - Limiter-Schaltungen verzichtet, so daß der Betrieb an komplexen Lasten bis zu  $\pm 90^\circ$  Phasenwinkel problemlos möglich ist.

## Garantie

Das Werk leistet Garantie für alle nachweisbaren Material- und Fertigungsfehler für die Dauer von 36 Monaten ab Verkauf. Garantieleistungen werden nur dann anerkannt, wenn gültige, d.h. vollständig ausgefüllte Garantieunterlagen vorliegen. Von der Garantie ausgenommen sind alle Schäden, die durch falsche oder unsachgemäße Bedienung verursacht werden. Bei Fremdeingriffen oder eigenmächtigen Änderungen erlischt jeder Garantieanspruch.

## DESCRIPTION

DYNACORD power amplifiers of the LINEAR PRECISION SERIES meet the most stringent requirements of tough touring applications. They are protected against high temperature, overload, shorted outputs, radio frequency interference and DC faults. The power transistors are protected from back-EMF damage by means of an additional protective circuit. For the so-called soft-start the power outputs are switched on delayed via relays. An inrush current limiter circuit prevents the mains fuses from being blown. Maximum precision is also guaranteed as regards mechanical construction and finish. The robust steel chassis features remarkable torsion resistance and is particularly designed to cope with the tough wear and tear associated with going on tour in the rock & roll business. Thermal stability is guaranteed by several low noise 3-stage fans which also means that they can be used inside the studio.

Comparator circuits constantly monitor the power amplifiers' input and output signal and control the internal limiters in case of non-linear operating conditions. They protect the loudspeakers from overload due to clipping of the amplifier. The LINEAR PRECISION power amplifiers feature excellent transmission properties. These power amplifier's topology also makes for extremely low distortion rates. Distortion factor (THD), intermodulation distortion (SMPTE-IM) and transient intermodulation distortion (DIM 30 and DIM 100) are so low that they are only detectable with the most sophisticated measuring equipment. Generously dimensioned power supplies with low-leakage toroidal-core transformers provide considerable headroom well above the nominal ratings. V/I foldback limiter circuits were deliberately not included in the Linear Precision power amplifiers to facilitate operation at complex loads up to a phase angle of  $\pm 90^\circ$ .

## Warranty

The factory grants warranty covering all verifiable material and manufacturing faults for a period of 36 months after purchase. Warranty claims will only be upheld if valid, i.e. fully completed warranty forms, are submitted. This warranty shall not cover damage caused by incorrect or improper operation.

Any claim to warranty shall become null and void in the event of modifications to the equipment being made by third parties or the purchaser himself.

## Technische Daten / Specifications

Models	L 300	L 500	L 1000	L 1600	L 2400
<b>Output Power</b>	(20Hz - 20kHz / THD = 0,1%)				
into 8 Ohms	2 x 100 W	2 x 175 W	2 x 350 W	2 x 500 W	2 x 750 W
into 4 Ohms	2 x 150 W	2 x 250 W	2 x 500 W	2 x 800 W	2 x 1200 W
into 2 Ohms	2 x 210 W	2 x 300 W	2 x 600 W	2 x 1000 W	2 x 1500 W
into 8 Ohms bridged	1 x 300 W	1 x 500 W	1 x 1000 W	1 x 1600 W	1 x 2400 W
into 4 Ohms bridged	1 x 420 W	1 x 600 W	1 x 1200 W	1 x 2000 W	1 x 3000 W
<b>Output Power</b>	(1kHz / THD = 1,0%)				
into 8 Ohms	2 x 120 W	2 x 180 W	2 x 370 W	2 x 560 W	2 x 850 W
into 4 Ohms	2 x 190 W	2 x 280 W	2 x 550 W	2 x 900 W	2 x 1300 W
into 2 Ohms	2 x 220 W	2 x 320 W	2 x 650 W	2 x 1200 W	2 x 1800 W
into 8 Ohms bridged	1 x 380 W	1 x 560 W	1 x 1100 W	1 x 1800 W	1 x 2600 W
into 4 Ohms bridged	1 x 440 W	1 x 640 W	1 x 1300 W	1 x 2400 W	1 x 3600 W
<b>Technical Specification</b>					
Frequency Response	0dB ..... -1dB / 20 Hz ....20 kHz				
Phase Response	± 30° / 20 Hz .....20 kHz				
Max. Output Level	34V / RMS	45V / RMS	66V / RMS	72V / RMS	91V / RMS
before clipping, no load					
reference 1 KHz / THD = 1%					
Voltage Gain	26 dB (constant gain option)				
reference 1kHz, constant gain option					
Input Sensitivity	0 dBu/0.775 V				
at rated output power/ 4 ohm	6 dBu/1.55 V				
reference 1 kHz					
Maximum Input Level	21 dBu / 8.7 V				
Input Impedance	20 kOhm				
active balanced					
THD	< 0.05%				
at rated output power MBW = 80 kHz, f = 1kHz					
IMD - SMPTE	< 0.01%				
60 Hz, 7 kHz, at rated output power					
Signal / Noise Ratio	> 105 dB				
rated output level / 4ohms to noise A-weighted , input sens. 6dBu					
Crosstalk	< -70 dB				
at rated output power, reference 1 kHz					
Damping Factor	> 300				
internal, 1kHz					
DIM 30	< 0.01%				
DIM 100	< 0.01%				
Slew Rate internal	> 20V/ μs	> 25V/μs	> 30 V/ μs	> 35 V/μs	> 40 V/μs
Power Consumption	200 W	300 W	600 W	1100 W	1650 W
1/8 rated output power 4 Ohm					
Dimensions (WxHxD)	483 x 88.1 x 426 mm		/	483 x 132.5 x 426 mm	
Weight	13 kg	14 kg	17 kg	27 kg	29 kg
Optional Input Transformer	90176	90176	90176	90176	90176

## AUSSCHREIBUNGSTEXT

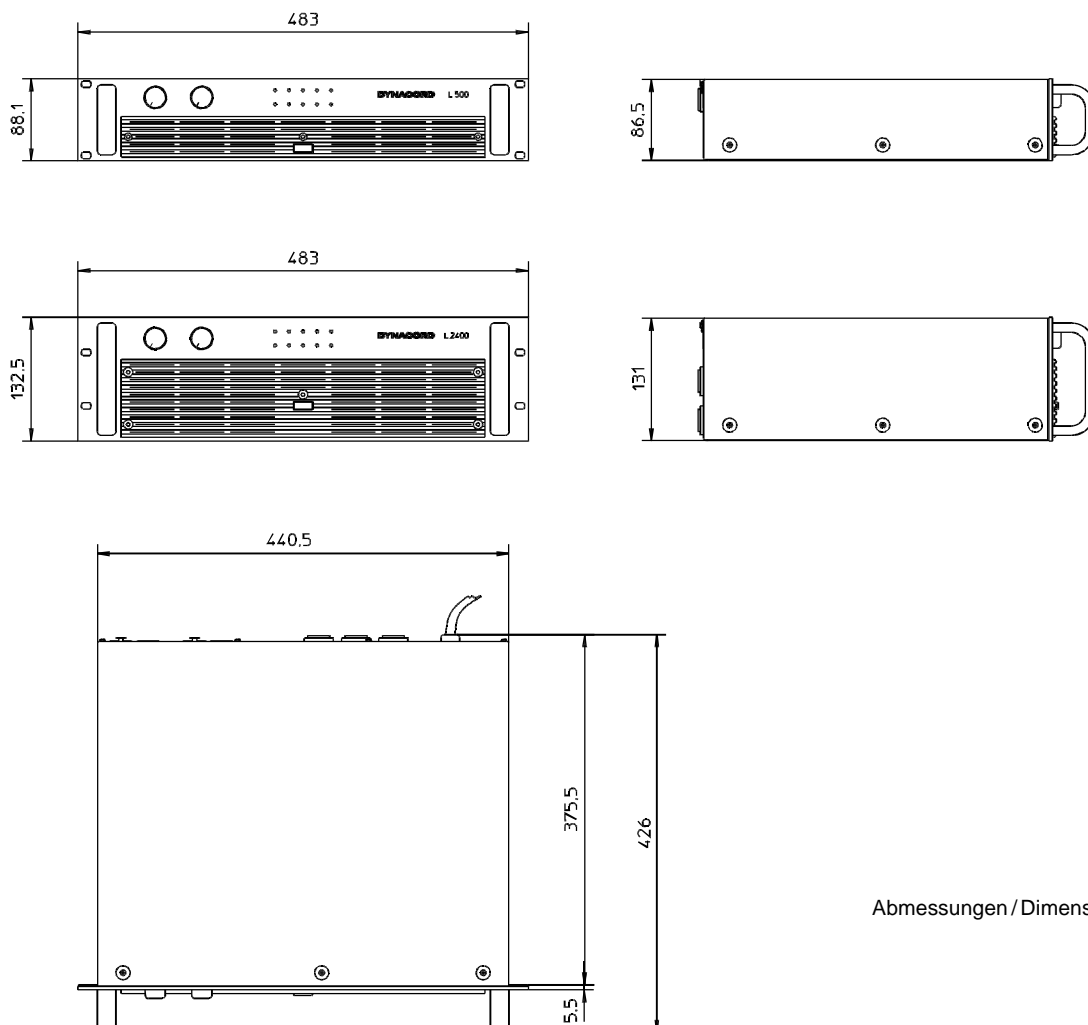
Die Eingänge sind elektronisch symmetrisch (Audio-Übertrager sind nachrüstbar) auf XLR-Buchsen geführt. Direct-Outs zum Durchschleifen des Signals sind ebenfalls in Form von XLR-Buchsen (male) praktischer Standard. Mit dem Input Routing können die Modi DUAL/Stereo oder PARALLEL/Mono gewählt werden. Außerdem können die LINEAR PRECISION Endstufen "Mono Bridged" betrieben werden.

Auf der Frontblende sitzen die in dB geeichten Eingangs-Gainsteller, die als besonders präzise, bediensichere Rasterpotis ausgeführt sind. Schnelle Auskunft über den Betriebszustand der Endstufen vermittelt das leicht ablesbare LED-Display. Für jeden der beiden Kanäle wird übersichtlich angezeigt, ob Betriebsbereitschaft gegeben ist, ob ein Signal am Eingang anliegt, ob ein Signal am Ausgang anliegt, wann die Limiter ansprechen und ob eine der Schutzschaltungen aktiv ist. Die Leistungsausgänge Channel A, Channel B und Bridged Out stehen in Form von Speakon-Buchsen zur Verfügung. Ebenfalls auf der Rückwand befinden sich ON/OFF Schalter für die integrierten Hi- und Lo- Cut Filter, ein Groundlift-Schalter, der das Gehäuse von der Schaltungsmasse trennt und somit Brummschleifen verhindern hilft sowie der Betriebsarten-Umschalter auf Mono-Brückenbetrieb. Alle Linear Precision Endstufen können im Normalbetrieb an Lasten bis hinab zu 2 Ohm und im Brückenbetrieb bis zu minimal 4 Ohm eingesetzt werden. Sie verfügen über extrem leise laufende Lüfter, mit Front-to-Rear Luftführung, was den problemlosen Betrieb in großen und schmalen Endstufen-Racks ermöglicht.

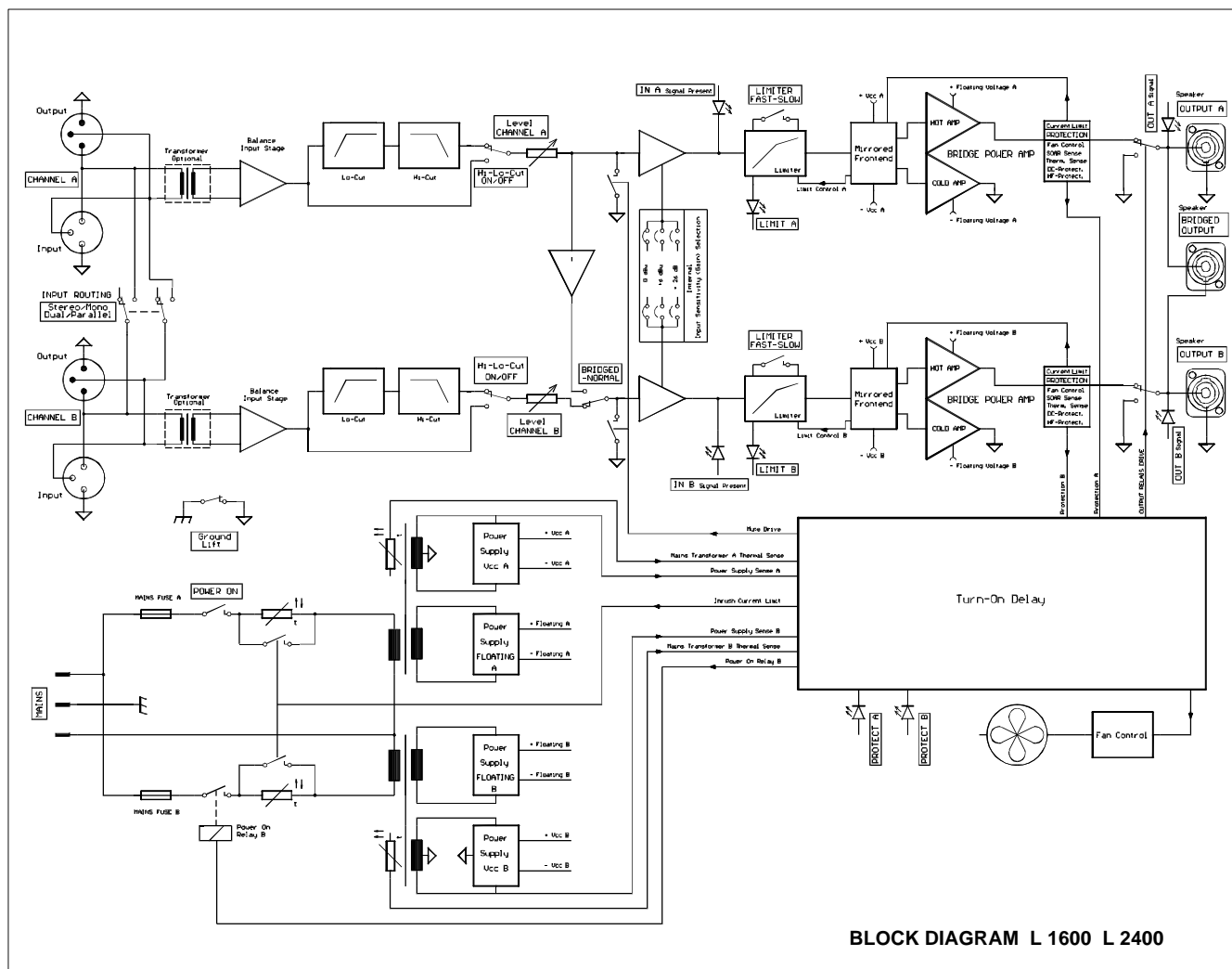
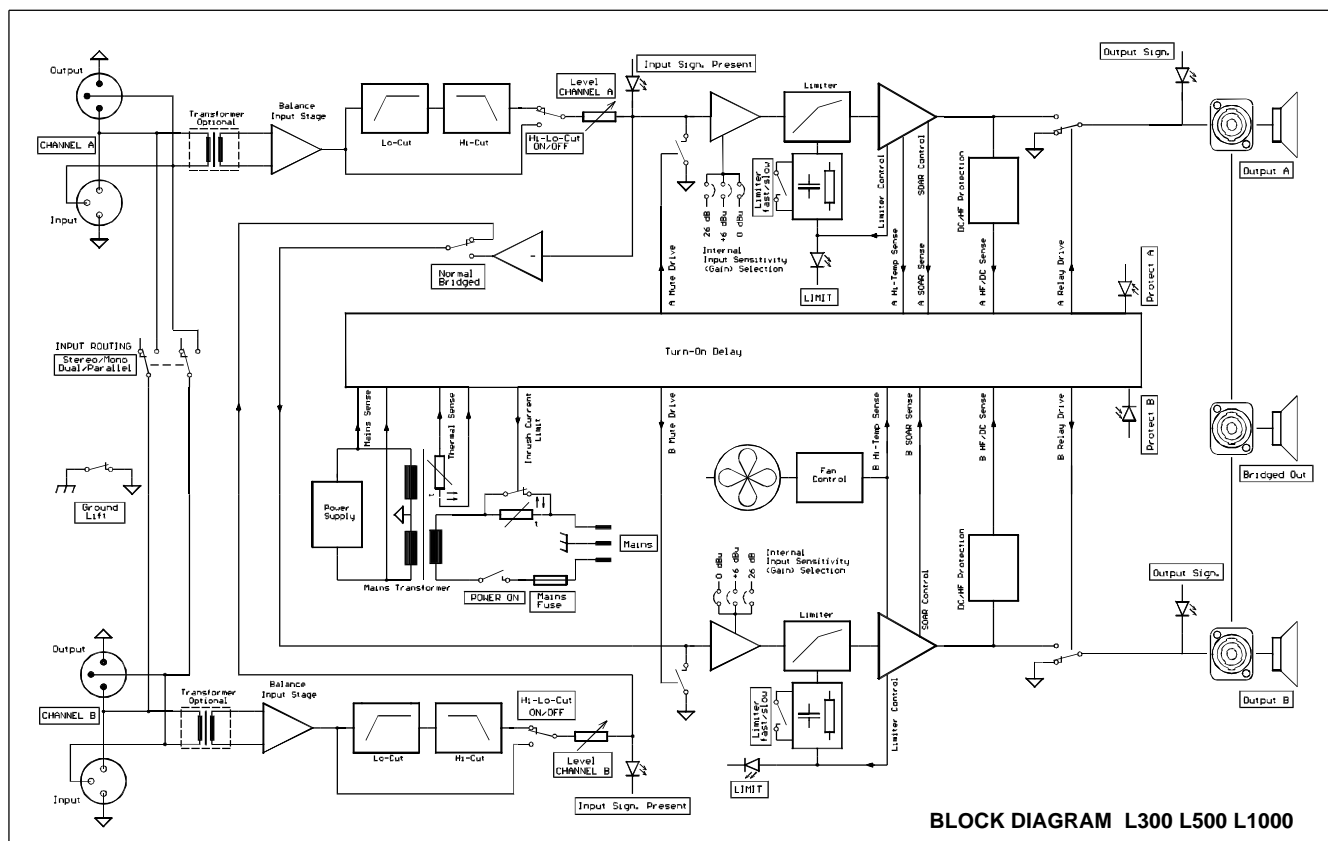
## ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The inputs are electronically balanced on XLR connectors. (Isolation transformers can be retrofitted). Direct Outs in the form of XLR connectors (male), to daisy-chain the signal, are also standard features. The operating modes DUAL/Stereo or PARALLEL/Mono can be selected via the Input Routing Switch. Furthermore, the LINEAR PRECISION power amplifiers can also be operated in "Mono Bridged" mode.

The front panel accommodates the dB-calibrated input gain controls which are designed as particularly precise and safe-to-operate detented potentiometers. The LED display provides information about the power amplifiers' operating status. For the two channels, they indicate readiness to operate, whether there is a signal at the input or output, when the limiters have been activated and whether one of the protective circuits has been triggered. The power outputs Channel A, Channel B and Bridged Out are available on Speakon connectors. The rear panel also accommodates the ON/OFF switches for the integrated Hi and Lo cut filters, a groundlift switch which separates the chassis from the circuit ground thus helping to prevent hum loops and the operating mode selector for mono bridged operation. All LINEAR PRECISION power amplifiers can be used in normal applications on loads as low as 2 ohms and in bridged mode down to a minimum of 4 ohms. They also feature extremely quiet fans with front-to-rear airflow, facilitating operation in large and narrow amplifier racks.



Abmessungen / Dimensions (in mm)



# Ersatzteilliste - Bill of Materials

112533 L 500 ENDST.2X250W			
Pos. Nr.	Best. Nr.		
Ref. No.	Part No.	Bezeichnung	Description

Zubehör	Accessories & packing material
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349519	BEDIENUNGSANL. L-SERIE	owner's manual
349522	FILTER-LÜFTER L 1000	air filter
357781	SECHSKT.STIFTSCHLÜSSEL 3	hex socket wrench
353105	KRT. 2 HE "DY." 556X507X178	carton
349568	STYROPOR-EINLAGE 2 HE 86MM	carton filler foam
342799	STYROPOR-PL. 500X380X50	styrofoam
337053	SCHUTZHÜLLE 650X800X0,08	poly bag

Mechanische Teile	Cabinet material
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B0010	341343	BUCHSE-SPEAKON-VIERECK 4POL	speaker socket 4-pole
S0010	346720	SCHALTER-NETZ ESB-99888V	power switch
	347348	DK 22 SW/GA C 6FL	rotary knob black
	341382	KNOPF-TASTE 20X8 SW 3.3	push button black
	349528	HUTSTOPFEN H7 18,5MM	plug, hole
	335589	FUSS-GUMMI SJ 5009 SW	rubber foot
	349635	KABEL-NETZ BEARB.AUS 349508	mains cord
	349610	KABEL-KONFEKT 10POL 0.520M	ribbon cable assy 10-way
	349611	KABEL-KONFEKT 8POL 0.510M	ribbon cable assy 8-way
	349612	KABEL-KONFEKT 8POL 0.400M	ribbon cable assy 8-way
	349626	KABEL-KONFEKT 10POL 0.560M	ribbon cable assy 10way
	349627	KABEL-KONFEKT 4POL 0.320M	ribbon cable assy 4-way
	348461	KABEL-KONFEKT 4POL 0.530M	ribbon cable assy 4-way
	349306	GRIFF 65 MM ANTHR. 2HE	handle 2HU
	348415	LÜFTER TYP FBA08A24H DC	fan dc 24V
	349517	FB.L 500 BED	front panel I500
	349512	RW.L 500 BED	rear panel I500
	351352	DEC.2HE DEM-LACK/L3-550 LAC	cover chassis
	348529	NT-RG.L500/P 550/P600	mains transformer
	348309	WI-SO PTC K155 100GRAD	resistor ptc
	348341	FEDERLEISTE 3POL CE100-	connector female 3-pole

813078	PCB+A:L500/P600	PCB assy 81307
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B0001	351815	BUCHSE-FL. XLR 3POL PRINTB	xlr connector female 3-pole
B0002	351816	STECKER-FL. XLR 3POL PRINTB	xlr connector male 3-pin
B0003	351815	BUCHSE-FL. XLR 3POL PRINTB	xlr connector female 3-pole
B0004	351816	STECKER-FL. XLR 3POL PRINTB	xlr connector male 3-pin
CN001	344975	MESSERLST. 10POL	connector male 10-pin
CN002	306395	FEDERLEISTE 2,5MM O 7POL	connector female 7-pole
CN003	348334	STIFTLEISTE 3POL MLSS	connector male 3-pin
CN004	344975	MESSERLST. 10POL	connector male 10-pin
CN005	337593	FEDERLEISTE 2,5MM O 5POL	connector female 5-pole
CN006	344975	MESSERLST. 10POL	connector male 10-pin
CN007	343516	FL.STECKER 4.8/0.5	connector 4.8mm faston
CN008	341937	MESSERLST. 4POL	connector male 4-pin
CN009	341937	MESSERLST. 4POL	connector male 4-pin
C0001	342937	KO-FOL 1.000MF 63V 5%	cap mylar 1uF

112533 L 500 ENDST.2X250W					
Pos. Nr.	Best. Nr.				
Ref. No.	Part No.	Bezeichnung			Description
C0002	342937	KO-FOL	1.000MF	63V 5%	cap mylar 1uF
C0003	346976	KO-FOL	4700.000PF	100V 5%	cap mylar 4.7nF
C0004	337181	KO-FOL	0.010MF	100V 5%	cap mylar 10nF
C0005	327389	KO-FOL	220.000PF	100V 5%	cap mylar 220pF
C0006	301472	KO-EL	10.000MF	63V	cap electrolytic 10uF/63V
C0009	301472	KO-EL	10.000MF	63V	cap electrolytic 10uF/63V
C0010	329021	KO-KER	0.10MF	100V 20%	cap ceramic 100nF
C0011	329021	KO-KER	0.10MF	100V 20%	cap ceramic 100nF
C0012	301558	KO-KER	33.0PF	100V 2%	cap ceramic 33pF
C0013	301558	KO-KER	33.0PF	100V 2%	cap ceramic 33pF
C0014	329021	KO-KER	0.10MF	100V 20%	cap ceramic 100nF
C0015	329021	KO-KER	0.10MF	100V 20%	cap ceramic 100nF
C0101	342937	KO-FOL	1.000MF	63V 5%	cap mylar 1uF
C0102	342937	KO-FOL	1.000MF	63V 5%	cap mylar 1uF
C0103	346976	KO-FOL	4700.000PF	100V 5%	cap mylar 4.7nF
C0104	337181	KO-FOL	0.010MF	100V 5%	cap mylar 10nF
C0105	327389	KO-FOL	220.000PF	100V 5%	cap mylar 220pF
C0106	301472	KO-EL	10.000MF	63V	cap electrolytic 10uF/63V
C0109	301472	KO-EL	10.000MF	63V	cap electrolytic 10uF/63V
C0110	329021	KO-KER	0.10MF	100V 20%	cap ceramic 100nF
C0111	329021	KO-KER	0.10MF	100V 20%	cap ceramic 100nF
C0112	301558	KO-KER	33.0PF	100V 2%	cap ceramic 33pF
C0113	301558	KO-KER	33.0PF	100V 2%	cap ceramic 33pF
C0114	329021	KO-KER	0.10MF	100V 20%	cap ceramic 100nF
C0115	329021	KO-KER	0.10MF	100V 20%	cap ceramic 100nF
D0001	336398	LED GN	3MM TLHG	4400/01	LED green 3mm
D0002	336398	LED GN	3MM TLHG	4400/01	LED green 3mm
D0003	336398	LED GN	3MM TLHG	4400/01	LED green 3mm
D0004	336398	LED GN	3MM TLHG	4400/01	LED green 3mm
D0005	336399	LED RT	3MM TLUR	4401	LED red 3mm
D0006	336399	LED RT	3MM TLUR	4401	LED red 3mm
D0007	336399	LED RT	3MM TLUR	4401	LED red 3mm
D0008	336399	LED RT	3MM TLUR	4401	LED red 3mm
D0009	336398	LED GN	3MM TLHG	4400/01	LED green 3mm
D0010	336398	LED GN	3MM TLHG	4400/01	LED green 3mm
D0011	328788	DIODZ BZX 55C	5V1	0.50W	diode zener 5V1
D0012	328788	DIODZ BZX 55C	5V1	0.50W	diode zener 5V1
D0013	328788	DIODZ BZX 55C	5V1	0.50W	diode zener 5V1
D0014	328788	DIODZ BZX 55C	5V1	0.50W	diode zener 5V1
D0015	301254	DIODE 1N 4148	AXIAL		diode 1N 4148
H0001	343457	DICKS-NETZW.	8PIN	2%	res.network 8x10k Ohm
H0002	343457	DICKS-NETZW.	8PIN	2%	res.network 8x10k Ohm
I0001	327197	IC NE 5532 P	2FACH	OP	IC NE 5532 N
I0002	327197	IC NE 5532 P	2FACH	OP	IC NE 5532 N
I0003	327197	IC NE 5532 P	2FACH	OP	IC NE 5532 N
I0004	327197	IC NE 5532 P	2FACH	OP	IC NE 5532 N
I0005	331340	IC TL 072 CP	2FACH	OP	IC TL 072 CP
J0123	340681	STIFTLEISTE	2X	3POL	connector male 2x3-pin
J0456	340681	STIFTLEISTE	2X	3POL	connector male 2x3-pin
Q0001	335763	TRANS 2N 3904			transistor 2N 3904
Q0002	307150	TRANS BC 337-25	TO 92		transistor BC 337-25
Q0003	307430	TRANS BC 327-25	TO 92		transistor BC 327-25

112533 L 500 ENDST.2X250W				
Pos. Nr. Ref. No.	Best. Nr. Part No.	Bezeichnung	Description	
Q0004	348421	TRANS 2N 3906	transistor 2N 3906	
Q0005	307150	TRANS BC 337-25 TO 92	transistor BC 337-25	
Q0006	307150	TRANS BC 337-25 TO 92	transistor BC 337-25	
Q0101	335763	TRANS 2N 3904	transistor 2N 3904	
Q0102	307150	TRANS BC 337-25 TO 92	transistor BC 337-25	
Q0103	307430	TRANS BC 327-25 TO 92	transistor BC 327-25	
Q0104	348421	TRANS 2N 3906	transistor 2N 3906	
S0001	348572	SCHALTER-SCHIEBE 4XUM	slide switch 4pdt	
S0002	348583	SCHALTER-SCHIEBE 2XUM	slide switch dpdt	
S0003	348583	SCHALTER-SCHIEBE 2XUM	slide switch dpdt	
S0004	348583	SCHALTER-SCHIEBE 2XUM	slide switch dpdt	
VR001	348430	P-DREH 10KOHM LIN	potentiometer 10k Ohm lin	
VR002	348430	P-DREH 10KOHM LIN	potentiometer 10k Ohm lin	
VR003	348487	WI-TRI 4.70 KOHM LIN	pot trim 4.7k Ohm lin	
VR004	348487	WI-TRI 4.70 KOHM LIN	pot trim 4.7k Ohm lin	
00020	332452	KODIERBRÜCKE 330.0101 SW	shorting plug	
00030	306397	KODIERSTIFT	code plug	

841568 PCBAR#L500/P600/550					PCB assy 84156
CN001	344862	MESSERLST. 8POL			connector male 8-pin
CN002	341937	MESSERLST. 4POL			connector male 4-pin
CN003	344975	MESSERLST. 10POL			connector male 10-pin
CN004	348334	STIFTLISTE 3POL MLSS			connector male 3-pin
CN005	344862	MESSERLST. 8POL			connector male 8-pin
CN006	330269	FL.STECKER 6.3/0.8			connector 6.3mm faston
CN007	330269	FL.STECKER 6.3/0.8			connector 6.3mm faston
CN008	330269	FL.STECKER 6.3/0.8			connector 6.3mm faston
CN302	341937	MESSERLST. 4POL			connector male 4-pin
C0001	335787	KO-KER 15.0PF 100V 2%			cap ceramic 15pF
C0002	301530	KO-KER 100.0PF 500V 10%			cap ceramic 100pF
C0003	340988	KO-FOL 0.470MF 63V 5%			cap mylar 470nF
C0004	304349	KO-EL 2.200MF 50V BIP			cap bip electr. 2.2uF/50V
C0005	327390	KO-FOL 470.000PF 100V 5%			cap mylar 470pF
C0006	343532	KO-EL 100.000MF 25V			cap electrolytic 100uF/25V
C0007	343532	KO-EL 100.000MF 25V			cap electrolytic 100uF/25V
C0008	301519	KO-KER 10.0PF 500V 10%			cap ceramic 10pF
C0010	326675	KO-EL 100.000MF 10V BIP			cap bip electr. 100uF/10V
C0014	348814	KO-KER 220.0PF K 500V 2%			cap ceramic 220pF
C0015	348814	KO-KER 220.0PF K 500V 2%			cap ceramic 220pF
C0016	351452	KO-FOL 2.200MF 50V 5%			cap mylar 2.2uF
C0018	306059	KO-KER 3.9PF 500V0.25			cap ceramic 3.9pF
C0019	301474	KO-EL 22.000MF 16V BIP			cap bip electr. 22uF/16V
C0021	326675	KO-EL 100.000MF 10V BIP			cap bip electr. 100uF/10V
C0022	326675	KO-EL 100.000MF 10V BIP			cap bip electr. 100uF/10V
C0023	342923	KO-FOL 0.220MF 63V 5%			cap mylar 220nF
C0024	342923	KO-FOL 0.220MF 63V 5%			cap mylar 220nF
C0025	329021	KO-KER 0.10MF 100V 20%			cap ceramic 100nF
C0026	329021	KO-KER 0.10MF 100V 20%			cap ceramic 100nF
C0027	329021	KO-KER 0.10MF 100V 20%			cap ceramic 100nF
C0028	329021	KO-KER 0.10MF 100V 20%			cap ceramic 100nF
C0029	329021	KO-KER 0.10MF 100V 20%			cap ceramic 100nF
C0030	341714	KO-SO 0.10MF 275V 20% K			safety cap 100nF/275V



112533 L 500 ENDST.2X250W					
Pos. Nr.	Best. Nr.				
Ref. No.	Part No.	Bezeichnung		Description	
C0031	341714	KO-SO	0.10MF 275V 20% K	safety cap 100nF/275V	
C0034	329021	KO-KER	0.10MF 100V 20%	cap ceramic 100nF	
C0301	335787	KO-KER	15.0PF 100V 2%	cap ceramic 15pF	
C0302	301530	KO-KER	100.0PF 500V 10%	cap ceramic 100pF	
C0303	340988	KO-FOL	0.470MF 63V 5%	cap mylar 470nF	
C0304	304349	KO-EL	2.200MF 50V BIP	cap bip electr. 2.2uF/50V	
C0305	327390	KO-FOL	470.000PF 100V 5%	cap mylar 470pF	
C0306	343532	KO-EL	100.000MF 25V	cap electrolytic 100uF/25V	
C0307	343532	KO-EL	100.000MF 25V	cap electrolytic 100uF/25V	
C0308	301519	KO-KER	10.0PF 500V 10%	cap ceramic 10pF	
C0310	326675	KO-EL	100.000MF 10V BIP	cap bip electr. 100uF/10V	
C0314	348814	KO-KER	220.0PF K 500V 2%	cap ceramic 220pF	
C0315	348814	KO-KER	220.0PF K 500V 2%	cap ceramic 220pF	
C0316	351452	KO-FOL	2.200MF 50V 5%	cap mylar 2.2uF	
C0318	306059	KO-KER	3.9PF 500V0.25	cap ceramic 3.9pF	
C0319	301474	KO-EL	22.000MF 16V BIP	cap bip electr. 22uF/16V	
C0321	326675	KO-EL	100.000MF 10V BIP	cap bip electr. 100uF/10V	
C0322	326675	KO-EL	100.000MF 10V BIP	cap bip electr. 100uF/10V	
C0323	342923	KO-FOL	0.220MF 63V 5%	cap mylar 220nF	
C0324	342923	KO-FOL	0.220MF 63V 5%	cap mylar 220nF	
C0325	329021	KO-KER	0.10MF 100V 20%	cap ceramic 100nF	
C0326	329021	KO-KER	0.10MF 100V 20%	cap ceramic 100nF	
C0330	341714	KO-SO	0.10MF 275V 20% K	safety cap 100nF/275V	
C0331	341714	KO-SO	0.10MF 275V 20% K	safety cap 100nF/275V	
D0002	309450	DIODZ BZX 55C	15V 0.50W	diode zener 15V	
D0003	309450	DIODZ BZX 55C	15V 0.50W	diode zener 15V	
D0004	301254	DIODE 1N 4148	AXIAL	diode 1N 4148	
D0005	301254	DIODE 1N 4148	AXIAL	diode 1N 4148	
D0006	301254	DIODE 1N 4148	AXIAL	diode 1N 4148	
D0007	301254	DIODE 1N 4148	AXIAL	diode 1N 4148	
D0008	307916	DIODZ BZX 55C	7V5 0.50W	diode zener 7V5	
D0009	307916	DIODZ BZX 55C	7V5 0.50W	diode zener 7V5	
D0010	301254	DIODE 1N 4148	AXIAL	diode 1N 4148	
D0011	304360	DIODE 1N 4007	GEGURTET	diode 1N 4002	
D0012	301254	DIODE 1N 4148	AXIAL	diode 1N 4148	
D0014	328769	DIODE MR 752		diode MR 752	
D0015	328769	DIODE MR 752		diode MR 752	
D0016	301254	DIODE 1N 4148	AXIAL	diode 1N 4148	
D0017	301254	DIODE 1N 4148	AXIAL	diode 1N 4148	
D0019	329511	DIODZ BZX 55C	2V4 0.50W	diode zener 2V4	
D0024	348573	DIODE BAV 20	0.40W	diode BAV 20	
D0025	348573	DIODE BAV 20	0.40W	diode BAV 20	
D0026	301254	DIODE 1N 4148	AXIAL	diode 1N 4148	
D0027	301254	DIODE 1N 4148	AXIAL	diode 1N 4148	
D0302	309450	DIODZ BZX 55C	15V 0.50W	diode zener 15V	
D0303	309450	DIODZ BZX 55C	15V 0.50W	diode zener 15V	
D0304	301254	DIODE 1N 4148	AXIAL	diode 1N 4148	
D0305	301254	DIODE 1N 4148	AXIAL	diode 1N 4148	
D0306	301254	DIODE 1N 4148	AXIAL	diode 1N 4148	
D0307	301254	DIODE 1N 4148	AXIAL	diode 1N 4148	
D0308	307916	DIODZ BZX 55C	7V5 0.50W	diode zener 7V5	
D0309	307916	DIODZ BZX 55C	7V5 0.50W	diode zener 7V5	

112533 L 500 ENDST.2X250W				
Pos. Nr.	Best. Nr.			
Ref. No.	Part No.	Bezeichnung	Description	
D0310	301254	DIODE 1N 4148	AXIAL	diode 1N 4148
D0312	301254	DIODE 1N 4148	AXIAL	diode 1N 4148
D0314	328769	DIODE MR 752		diode MR 752
D0315	328769	DIODE MR 752		diode MR 752
D0316	301254	DIODE 1N 4148	AXIAL	diode 1N 4148
D0317	301254	DIODE 1N 4148	AXIAL	diode 1N 4148
D0319	329511	DIODZ BZX 55C 2V4 0.50W		diode zener 2V4
E0001	354859	RELAIS 793-P-1C-S-24V DC		relay 24V
E0301	354859	RELAIS 793-P-1C-S-24V DC		relay 24V
H0001	343457	DICKS-NETZW. 8PIN 2%		res.network 8x10k Ohm
H0301	343457	DICKS-NETZW. 8PIN 2%		res.network 8x10k Ohm
I0001	338359	IC LM 308 AN		IC LM 308 A
I0002	331340	IC TL 072 CP 2FACH OP		IC TL 072 CP
I0003	327197	IC NE 5532 P 2FACH OP		IC NE 5532 N
I0004	307421	IC CA 3080 E OTA		IC CA 3080 E
I0005	331340	IC TL 072 CP 2FACH OP		IC TL 072 CP
I0301	338359	IC LM 308 AN		IC LM 308 A
I0302	331340	IC TL 072 CP 2FACH OP		IC TL 072 CP
I0304	307421	IC CA 3080 E OTA		IC CA 3080 E
I0305	331340	IC TL 072 CP 2FACH OP		IC TL 072 CP
J0001	336090	STIFTLEISTE 2POL STL11S-1		connector male 2-pin
J0002	336090	STIFTLEISTE 2POL STL11S-1		connector male 2-pin
L0001	348592	FILTERSP. 2.50UH/0.004OHM		coil 2.5uH
L0301	348592	FILTERSP. 2.50UH/0.004OHM		coil 2.5uH
Q0001	330264	TRANS J 111		transistor J 111 A
Q0002	335763	TRANS 2N 3904		transistor 2N 3904
Q0003	348421	TRANS 2N 3906		transistor 2N 3906
Q0004	335763	TRANS 2N 3904		transistor 2N 3904
Q0005	348421	TRANS 2N 3906		transistor 2N 3906
Q0006	335763	TRANS 2N 3904		transistor 2N 3904
Q0007	348421	TRANS 2N 3906		transistor 2N 3906
Q0008	348422	TRANS MPSA 42		transistor MPSA 42
Q0009	348423	TRANS MPSA 92		transistor MPSA 92
Q0010	348422	TRANS MPSA 42		transistor MPSA 42
Q0011	348423	TRANS MPSA 92		transistor MPSA 92
Q0012	348422	TRANS MPSA 42		transistor MPSA 42
Q0013	348423	TRANS MPSA 92		transistor MPSA 92
00010	348410	TRANS 2SB 1110 C		transistor 2SB 1110
00010	348411	TRANS 2SD 1610 C		transistor 2SD 1610
Q0016	348409	TRANS 2SC 4793		transistor 2SC 4793
Q0018	348421	TRANS 2N 3906		transistor 2N 3906
Q0019	335763	TRANS 2N 3904		transistor 2N 3904
Q0022	335763	TRANS 2N 3904		transistor 2N 3904
Q0023	348421	TRANS 2N 3906		transistor 2N 3906
Q0024	348409	TRANS 2SC 4793		transistor 2SC 4793
Q0025	348408	TRANS 2SA 1837		transistor 2SA 1837
Q0026	351981	TRANS MJL 3281 A		transistor MJL 3281 A
Q0027	351982	TRANS MJL 1302 A		transistor MJL 1302 A
Q0028	328889	TRANS MJ 15003		transistor MJ 15003
Q0029	328890	TRANS MJ 15004		transistor MJ 15004
Q0032	328889	TRANS MJ 15003		transistor MJ 15003
Q0033	328890	TRANS MJ 15004		transistor MJ 15004

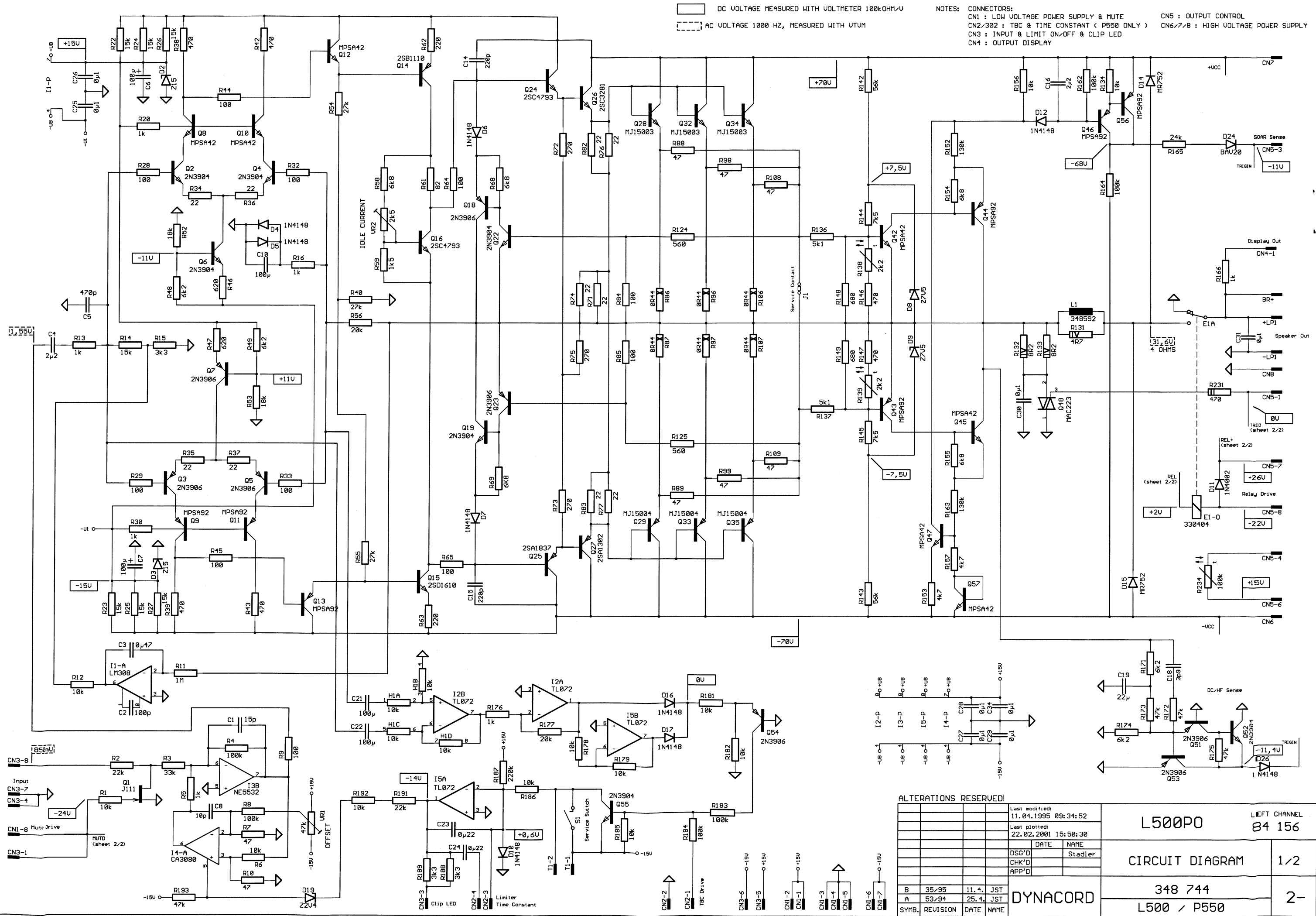
112533 L 500 ENDST.2X250W			
Pos. Nr.	Best. Nr.		
Ref. No.	Part No.	Bezeichnung	Description
Q0034	328889	TRANS MJ 15003	transistor MJ 15003
Q0035	328890	TRANS MJ 15004	transistor MJ 15004
Q0042	348422	TRANS MPSA 42	transistor MPSA 42
Q0043	348423	TRANS MPSA 92	transistor MPSA 92
Q0044	348423	TRANS MPSA 92	transistor MPSA 92
Q0045	348422	TRANS MPSA 42	transistor MPSA 42
Q0046	348423	TRANS MPSA 92	transistor MPSA 92
Q0047	348422	TRANS MPSA 42	transistor MPSA 42
00010	338876	TRIAC MAC 223 A6	triac MAC 223 A6
Q0051	348421	TRANS 2N 3906	transistor 2N 3906
Q0052	335763	TRANS 2N 3904	transistor 2N 3904
Q0053	348421	TRANS 2N 3906	transistor 2N 3906
Q0054	348421	TRANS 2N 3906	transistor 2N 3906
Q0055	335763	TRANS 2N 3904	transistor 2N 3904
Q0056	348423	TRANS MPSA 92	transistor MPSA 92
Q0057	348422	TRANS MPSA 42	transistor MPSA 42
Q0301	330264	TRANS J 111	transistor J 111 A
Q0302	335763	TRANS 2N 3904	transistor 2N 3904
Q0303	348421	TRANS 2N 3906	transistor 2N 3906
Q0304	335763	TRANS 2N 3904	transistor 2N 3904
Q0305	348421	TRANS 2N 3906	transistor 2N 3906
Q0306	335763	TRANS 2N 3904	transistor 2N 3904
Q0307	348421	TRANS 2N 3906	transistor 2N 3906
Q0308	348422	TRANS MPSA 42	transistor MPSA 42
Q0309	348423	TRANS MPSA 92	transistor MPSA 92
Q0310	348422	TRANS MPSA 42	transistor MPSA 42
Q0311	348423	TRANS MPSA 92	transistor MPSA 92
Q0312	348422	TRANS MPSA 42	transistor MPSA 42
Q0313	348423	TRANS MPSA 92	transistor MPSA 92
00010	348410	TRANS 2SB 1110 C	transistor 2SB 1110
00010	348411	TRANS 2SD 1610 C	transistor 2SD 1610
Q0316	348409	TRANS 2SC 4793	transistor 2SC 4793
Q0318	348421	TRANS 2N 3906	transistor 2N 3906
Q0319	335763	TRANS 2N 3904	transistor 2N 3904
Q0322	335763	TRANS 2N 3904	transistor 2N 3904
Q0323	348421	TRANS 2N 3906	transistor 2N 3906
Q0324	348409	TRANS 2SC 4793	transistor 2SC 4793
Q0325	348408	TRANS 2SA 1837	transistor 2SA 1837
Q0326	351981	TRANS MJL 3281 A	transistor MJL 3281 A
Q0327	351982	TRANS MJL 1302 A	transistor MJL 1302 A
Q0328	328889	TRANS MJ 15003	transistor MJ 15003
Q0329	328890	TRANS MJ 15004	transistor MJ 15004
Q0332	328889	TRANS MJ 15003	transistor MJ 15003
Q0333	328890	TRANS MJ 15004	transistor MJ 15004
Q0334	328889	TRANS MJ 15003	transistor MJ 15003
Q0335	328890	TRANS MJ 15004	transistor MJ 15004
Q0342	348422	TRANS MPSA 42	transistor MPSA 42
Q0343	348423	TRANS MPSA 92	transistor MPSA 92
Q0344	348423	TRANS MPSA 92	transistor MPSA 92
Q0345	348422	TRANS MPSA 42	transistor MPSA 42
Q0346	348423	TRANS MPSA 92	transistor MPSA 92
Q0347	348422	TRANS MPSA 42	transistor MPSA 42

112533 L 500 ENDST.2X250W			
Pos. Nr. Ref. No.	Best. Nr. Part No.	Bezeichnung	Description
00010	338876	TRIAC MAC 223 A6	triac MAC 223 A6
Q0351	348421	TRANS 2N 3906	transistor 2N 3906
Q0352	335763	TRANS 2N 3904	transistor 2N 3904
Q0353	348421	TRANS 2N 3906	transistor 2N 3906
Q0354	348421	TRANS 2N 3906	transistor 2N 3906
Q0355	335763	TRANS 2N 3904	transistor 2N 3904
Q0356	348422	TRANS MPSA 42	transistor MPSA 42
Q0357	348423	TRANS MPSA 92	transistor MPSA 92
R0086	348456	WI-DR 2X 0.22 OHM 5.00W 5%	resistor 2x0.22 Ohm 5watt
R0087	348456	WI-DR 2X 0.22 OHM 5.00W 5%	resistor 2x0.22 Ohm 5watt
R0096	348456	WI-DR 2X 0.22 OHM 5.00W 5%	resistor 2x0.22 Ohm 5watt
R0097	348456	WI-DR 2X 0.22 OHM 5.00W 5%	resistor 2x0.22 Ohm 5watt
R0106	348456	WI-DR 2X 0.22 OHM 5.00W 5%	resistor 2x0.22 Ohm 5watt
R0107	348456	WI-DR 2X 0.22 OHM 5.00W 5%	resistor 2x0.22 Ohm 5watt
R0131	341713	WI-DR 4.70 OHM 4.00W 5%	resistor 4.70 Ohm 4watt
R0132	348590	WI-DR 8.20 OHM 4.00W 5%	resistor 8.20 Ohm 4watt
R0133	348590	WI-DR 8.20 OHM 4.00W 5%	resistor 8.20 Ohm 4watt
R0138	348593	WI-SO NTC K 164/2.2K	safety component NTC
R0139	348593	WI-SO NTC K 164/2.2K	safety component NTC
R0229	302032	WI-SCH 470.00 OHM 2.00W 5%	resistor 470 Ohm 2watt
R0231	302032	WI-SCH 470.00 OHM 2.00W 5%	resistor 470 Ohm 2watt
00005	348490	WI-SO NTC K 164/100K/J	safety component NTC
R0386	348456	WI-DR 2X 0.22 OHM 5.00W 5%	resistor 2x0.22 Ohm 5watt
R0387	348456	WI-DR 2X 0.22 OHM 5.00W 5%	resistor 2x0.22 Ohm 5watt
R0396	348456	WI-DR 2X 0.22 OHM 5.00W 5%	resistor 2x0.22 Ohm 5watt
R0397	348456	WI-DR 2X 0.22 OHM 5.00W 5%	resistor 2x0.22 Ohm 5watt
R0406	348456	WI-DR 2X 0.22 OHM 5.00W 5%	resistor 2x0.22 Ohm 5watt
R0407	348456	WI-DR 2X 0.22 OHM 5.00W 5%	resistor 2x0.22 Ohm 5watt
R0431	341713	WI-DR 4.70 OHM 4.00W 5%	resistor 4.70 Ohm 4watt
R0432	348590	WI-DR 8.20 OHM 4.00W 5%	resistor 8.20 Ohm 4watt
R0433	348590	WI-DR 8.20 OHM 4.00W 5%	resistor 8.20 Ohm 4watt
R0438	348593	WI-SO NTC K 164/2.2K	safety component NTC
R0439	348593	WI-SO NTC K 164/2.2K	safety component NTC
T0001	336090	STIFTLASTE 2POL STL11S-1	connector male 2-pin
T0301	336090	STIFTLASTE 2POL STL11S-1	connector male 2-pin
VR001	348486	WI-TRI 47.00 KOHM LIN	pot trim 47k Ohm lin
VR002	348675	WI-TRI 2.50 KOHM LIN	pot trim 2.5k Ohm lin
VR301	348486	WI-TRI 47.00 KOHM LIN	pot trim 47k Ohm lin
VR302	348675	WI-TRI 2.50 KOHM LIN	pot trim 2.5k Ohm lin

852378 PCB+A:L300/500/P550/600				PCB assy 85237
A	330269	FL.STECKER 6.3/0.8		connector 6.3mm faston
B	330269	FL.STECKER 6.3/0.8		connector 6.3mm faston
C	330269	FL.STECKER 6.3/0.8		connector 6.3mm faston
CN002	344862	MESSERLST. 8POL		connector male 8-pin
CN003	344862	MESSERLST. 8POL		connector male 8-pin
CN004	348334	STIFTLASTE 3POL MLSS		connector male 3-pin
CN006	348334	STIFTLASTE 3POL MLSS		connector male 3-pin
CN007	343516	FL.STECKER 4.8/0.5		connector 4.8mm faston
CN008	343516	FL.STECKER 4.8/0.5		connector 4.8mm faston
CN009	343516	FL.STECKER 4.8/0.5		connector 4.8mm faston
C0001	341714	KO-SO 0.10MF 275V 20% K		safety cap 100nF/275V

112533		L 500 ENDST.2X250W		
Pos. Nr.	Best. Nr.			Description
Ref. No.	Part No.	Bezeichnung		
C0002	341714	KO-SO	0.10MF 275V 20% K	safety cap 100nF/275V
C0003	327366	KO-EL	4.700MF 50V BIP	cap bip electr. 4.7uF/50V
C0051	335935	KO-EL	2200.000MF 35V	cap electrolytic 2200uF/35V
C0052	335935	KO-EL	2200.000MF 35V	cap electrolytic 2200uF/35V
C0055	301472	KO-EL	10.000MF 63V	cap electrolytic 10uF/63V
C0056	301472	KO-EL	10.000MF 63V	cap electrolytic 10uF/63V
C0057	342361	KO-KER	47.0PF K 100V 2%	cap ceramic 47pF
C0058	342361	KO-KER	47.0PF K 100V 2%	cap ceramic 47pF
C0059	301472	KO-EL	10.000MF 63V	cap electrolytic 10uF/63V
C0060	301472	KO-EL	10.000MF 63V	cap electrolytic 10uF/63V
C0068	342923	KO-FOL	0.220MF 63V 5%	cap mylar 220nF
C0069	342967	KO-FOL	3.300MF 50V 10%	cap mylar 3.3uF
C0071	340988	KO-FOL	0.470MF 63V 5%	cap mylar 470nF
C0072	343530	KO-EL	47.000MF 50V	cap electrolytic 47uF/50V
C0074	329021	KO-KER	0.10MF 100V 20%	cap ceramic 100nF
D0020	304992	DIODZ	BZX 55C 6V8 0.50W	diode zener 6V8
D0021	304992	DIODZ	BZX 55C 6V8 0.50W	diode zener 6V8
D0022	301254	DIODE	1N 4148 AXIAL	diode 1N 4148
D0023	301254	DIODE	1N 4148 AXIAL	diode 1N 4148
D0028	301254	DIODE	1N 4148 AXIAL	diode 1N 4148
D0029	301254	DIODE	1N 4148 AXIAL	diode 1N 4148
D0030	304360	DIODE	1N 4007 GEGURTET	diode 1N 4002
D0031	304360	DIODE	1N 4007 GEGURTET	diode 1N 4002
D0032	301254	DIODE	1N 4148 AXIAL	diode 1N 4148
D0034	301254	DIODE	1N 4148 AXIAL	diode 1N 4148
D0035	301254	DIODE	1N 4148 AXIAL	diode 1N 4148
D0036	301254	DIODE	1N 4148 AXIAL	diode 1N 4148
D0037	331421	DIODZ	BZT 03C 15V 3.50W	diode BZT 03C 15
D0038	331421	DIODZ	BZT 03C 15V 3.50W	diode BZT 03C 15
E0001	356594	RELAIS	793-P-1A-S-TV10	relay 24V / spst
F0001	306838	SICHER-HALTER	FAP	fuse holder
F0002	306838	SICHER-HALTER	FAP	fuse holder
F0003	328390	SICHER-HALTER	FAU	fuse holder
G0001	331965	GLRI	B 80 C1500 G	rectifier B80 C1500
I0006	332985	IC	TL 074 CN	IC TL 074 CN
M-E	343516	FL.STECKER	4.8/0.5	connector 4.8mm faston
M-L	330269	FL.STECKER	6.3/0.8	connector 6.3mm faston
M-N	330269	FL.STECKER	6.3/0.8	connector 6.3mm faston
M1	330269	FL.STECKER	6.3/0.8	connector 6.3mm faston
M2	330269	FL.STECKER	6.3/0.8	connector 6.3mm faston
Q0060	307150	TRANS	BC 337-25 TO 92	transistor BC 337-25
Q0061	307430	TRANS	BC 327-25 TO 92	transistor BC 327-25
Q0062	307150	TRANS	BC 337-25 TO 92	transistor BC 337-25
Q0063	307430	TRANS	BC 327-25 TO 92	transistor BC 327-25
00010	301236	TRANS	BD 241 B	transistor BD 241 B
00010	301235	TRANS	BD 242 B	transistor BD 242 B
Q0066	306928	TRANS	BC 560 C	transistor BC 560 C
Q0067	306928	TRANS	BC 560 C	transistor BC 560 C
Q0068	301184	TRANS	BC 550 C	transistor BC 550 B
Q0069	306928	TRANS	BC 560 C	transistor BC 560 C
Q0070	306928	TRANS	BC 560 C	transistor BC 560 C
Q0071	307150	TRANS	BC 337-25 TO 92	transistor BC 337-25



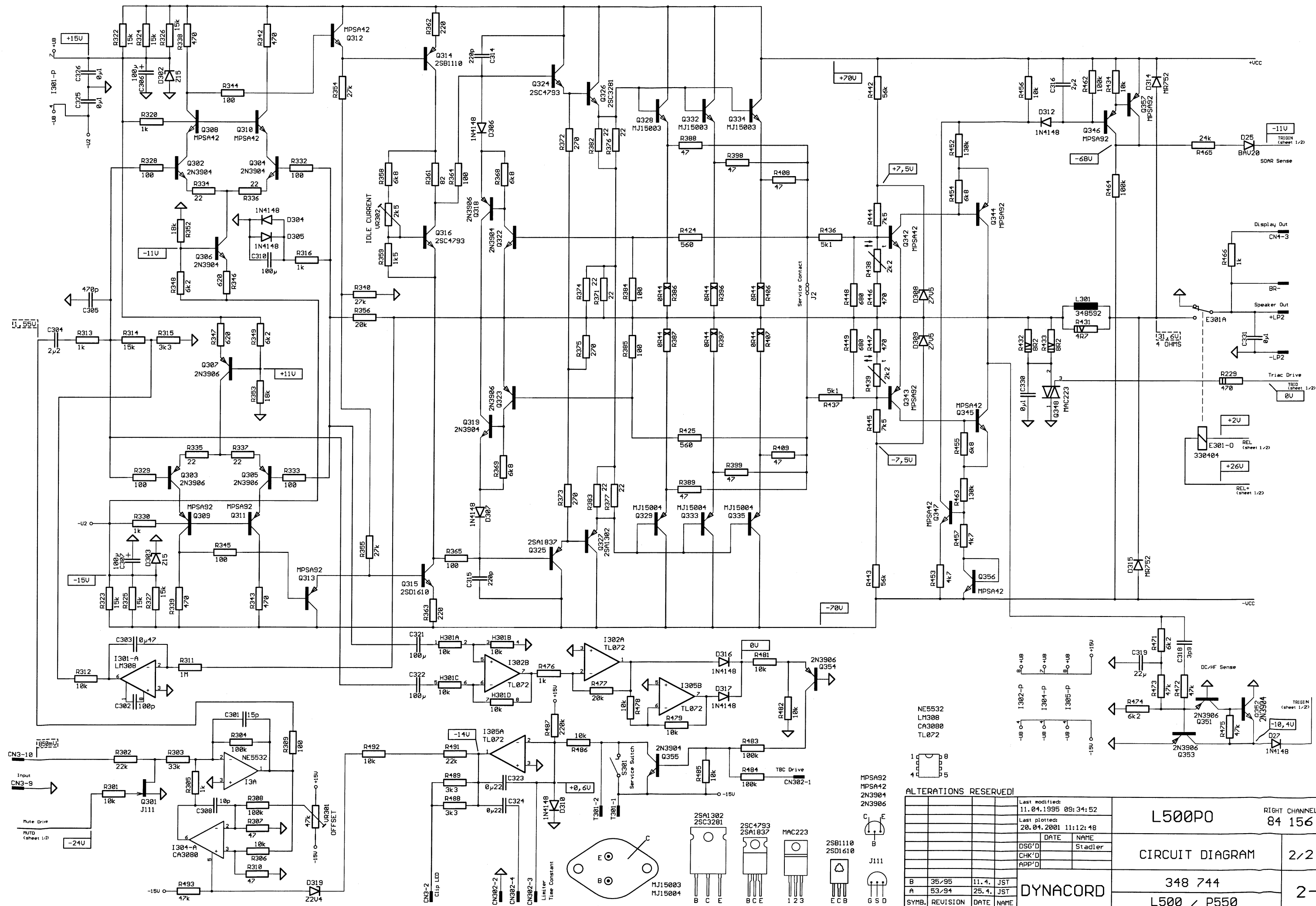


DC VOLTAGE MEASURED WITH VOLTMETER 100kOHM/V  
AC VOLTAGE 1000 HZ, MEASURED WITH VTUM

NOTES: CONNECTORS:  
CN1 : LOW VOLTAGE POWER SUPPLY & MUTE  
CN2/302 : TBC & TIME CONSTANT ( P550 ONLY )  
CN3 : INPUT & LIMIT ON/OFF & CLIP LED  
CN4 : OUTPUT DISPLAY

CN5 : OUTPUT CONTROL  
CN6/7/8 : HIGH VOLTAGE POWER SUPPLY

ALTERATIONS RESERVED!				Last modified: 11.04.1995 09:34:52		L500P0		LEFT CHANNEL 84 156	
				Last plotted: 22.02.2001 15:50:30					
				DATE	NAME	CIRCUIT DIAGRAM		1/2	
				DSG'D	Stadler				
				CHK'D					
				APP'D					
B	35/95	11.4.	JST	DYNACORD		348 744		2-	
A	53/94	25.4.	JST			L500 / P550			
SYMB.	REVISION	DATE	NAME						



ALTERATIONS RESERVED!

Last modified:		11.04.1995 09:34:52	
Last plotted:		20.04.2001 11:12:48	
DATE		NAME	
DSG'D		Stadler	
CHK'D			
APP'D			
B	35/95	11.4.	JST
A	53/94	25.4.	JST
SYMB.	REVISION	DATE	NAME

L500P0

RIGHT CHANNEL  
84 156

CIRCUIT DIAGRAM

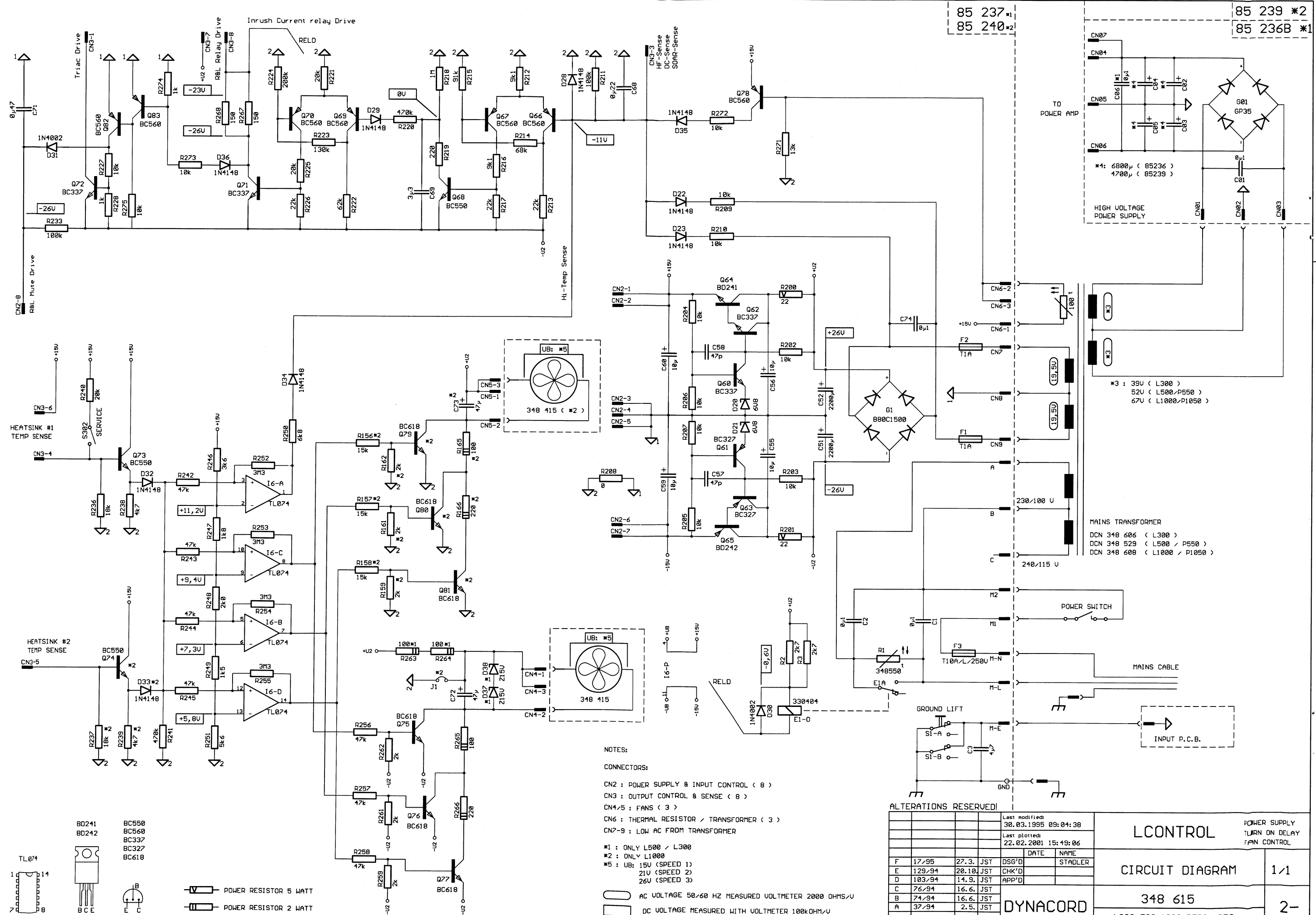
2/2

348 744

L500 / P550

2-





NOTES:

CONNECTORS:

CN2 : POWER SUPPLY & INPUT CONTROL ( 8 )

CN3 : OUTPUT CONTROL & SENSE ( 8 )

CN4/5 : FANS ( 3 )

CN6 : THERMAL RESISTOR / TRANSFORMER ( 3 )

CN7-9 : LOW AC FROM TRANSFORMER

\*1 : ONLY L500 / L300

\*2 : ONLY L1000

\*5 : UB: 15V (SPEED 1)  
21V (SPEED 2)  
26V (SPEED 3)

AC VOLTAGE 50/60 HZ MEASURED VOLTMETER 2000 OHMS/V

DC VOLTAGE MEASURED WITH VOLTMETER 100kOHM/V

ALTERATIONS RESERVED!				Last modified: 30.03.1995 09:04:38		LCONTROL		POWER SUPPLY TURN ON DELAY FAN CONTROL	
				Last plotted: 22.02.2001 15:49:06					
				DATE	NAME	CIRCUIT DIAGRAM		1/1	
F	17/95	27.3.	JST	DSG'D	STADLER				
E	129/94	20.10.	JST	CHK'D					
D	103/94	14.9.	JST	APP'D					
C	76/94	16.6.	JST						
B	74/94	16.6.	JST	DYNACORD		348 615		2-	
A	37/94	2.5.	JST						
SYMB.	REVISION	DATE	NAME			L300/500/1000 P550/1050			

112533 L 500 ENDST.2X250W				
Pos. Nr.	Best. Nr.	Bezeichnung		Description
Ref. No.	Part No.			
Q0072	307150	TRANS BC 337-25	TO 92	transistor BC 337-25
Q0073	301184	TRANS BC 550 C		transistor BC 550 B
Q0075	348591	TRANS BC 618 DARL.	TO 92	transistor BC 618
Q0076	348591	TRANS BC 618 DARL.	TO 92	transistor BC 618
Q0077	348591	TRANS BC 618 DARL.	TO 92	transistor BC 618
Q0078	306928	TRANS BC 560 C		transistor BC 560 C
Q0082	306928	TRANS BC 560 C		transistor BC 560 C
Q0083	306928	TRANS BC 560 C		transistor BC 560 C
R0001	348550	WI-SO NTC 10 OHM	K	safety resistor 10 Ohm
R0200	301726	WI-DR 22.00 OHM 5.00W10%		resistor 22 Ohm 5watt
R0201	301726	WI-DR 22.00 OHM 5.00W10%		resistor 22 Ohm 5watt
R0263	328799	WI-SCH 100.00 OHM 2.00W 5%		resistor 100 Ohm 2watt
R0264	328799	WI-SCH 100.00 OHM 2.00W 5%		resistor 100 Ohm 2watt
R0265	328799	WI-SCH 100.00 OHM 2.00W 5%		resistor 100 Ohm 2watt
R0266	328069	WI-SCH 220.00 OHM 2.00W 5%		resistor 220 Ohm 2watt
S0001	338886	SCHALTER-SCHIEBE L202-02-1-		switch slide
S0302	327947	SCHALTELEMENT C42315-A1347-		switch element on/off
00070	302565	SICHER T 10 A 250V		fuse 10A slow blow
00080	328391	SICHER-HALTER-KAPPE FEK		fuse holder carrier
00090	302582	SICHER T 1 A 250V		fuse 1A slow blow

852368 PCB+B.L300/500/P550/600/P-M PCB assy 85236				
CN001	330269	FL.STECKER 6.3/0.8		connector 6.3mm faston
CN002	330269	FL.STECKER 6.3/0.8		connector 6.3mm faston
CN003	330269	FL.STECKER 6.3/0.8		connector 6.3mm faston
CN004	330269	FL.STECKER 6.3/0.8		connector 6.3mm faston
CN005	330269	FL.STECKER 6.3/0.8		connector 6.3mm faston
CN006	330269	FL.STECKER 6.3/0.8		connector 6.3mm faston
CN007	330269	FL.STECKER 6.3/0.8		connector 6.3mm faston
C0001	341714	KO-SO 0.10MF 275V 20% K		safety cap 100nF/275V
C0002	348457	KO-EL 6800.000MF 80V 20%		cap electrolytic 6800mF/80V
C0003	348457	KO-EL 6800.000MF 80V 20%		cap electrolytic 6800mF/80V
C0004	348457	KO-EL 6800.000MF 80V 20%		cap electrolytic 6800mF/80V
C0005	348457	KO-EL 6800.000MF 80V 20%		cap electrolytic 6800mF/80V
C0006	341714	KO-SO 0.10MF 275V 20% K		safety cap 100nF/275V
G0001	348714	GLRI GBPC 3504 W WIRE LEADS		rectifier GBPC-W 3504